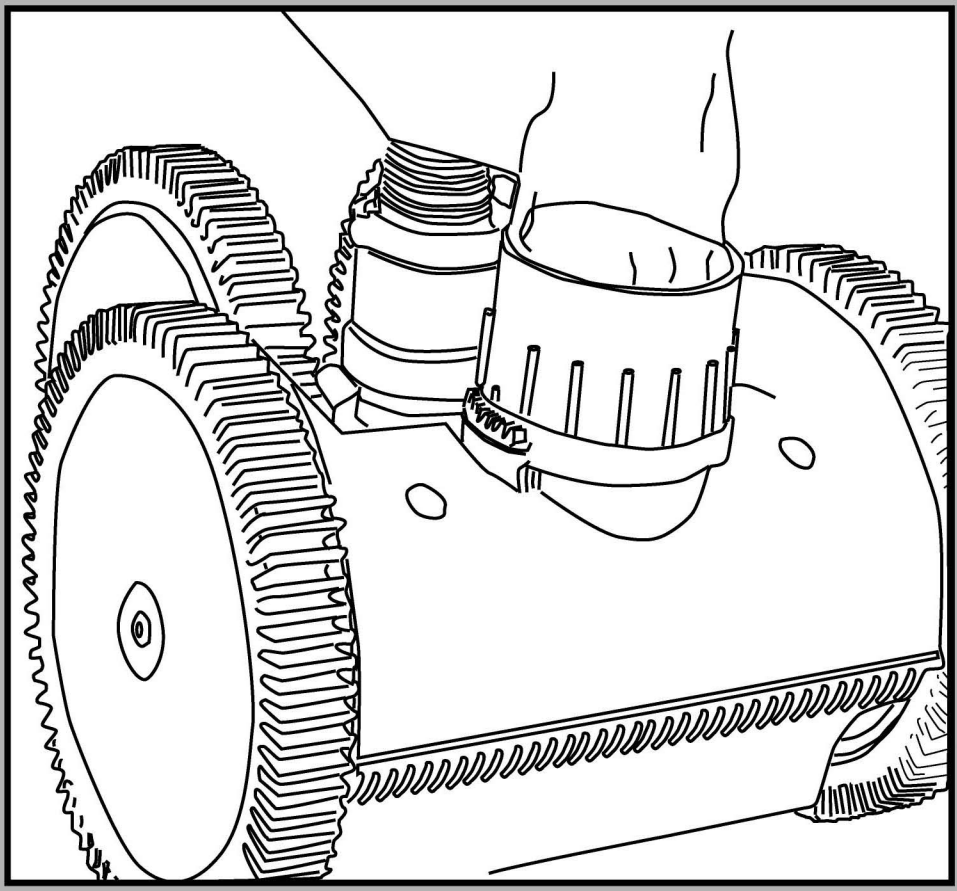
The PoolCleaner™



OWNERS MANUAL

PRESSURE Cleaner

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Lincoln pool equipment since 1974

About your new PoolCleaner™

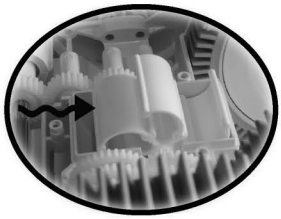
Thank you for choosing the POOLCLEANER™. The first thing you will notice when you look at the POOLCLEANER™ is that it is of highest quality. The POOLCLEANER™ is robust and if maintained properly will result in many years of pool cleaning. We use only the highest quality materials to ensure the best pool cleaning products. The POOLCLEANER™ is proudly made in the USA. This family of cleaners has been invented, designed and built with years of experience in the pool industry. Every cleaner is tested to insure the finest quality.

The new Pressure POOLCLEANER™ uses your existing pump. There is no need for an extra booster pump. This means energy savings. Although it can ALSO be used on most existing booster pump systems. The bottom has the widest vacuum path (8") of any pressure-side cleaners thus far in the industry. This means more cleaning ability with out clogging.

Some of the features that make THE POOLCLEANER ™ unique:

SELF ADJUSTING TURBINE VANES

All the POOLCLEANER™ cleaners have the patented self-adjusting turbine, which maximizes the power from the water flow. This turbine is similar to a paddle wheel with blades that are adjustable.



This feature allows the POOLCLEANER™ to still move at low suction and low pressure. In addition the folding vanes of the turbine allow for the easy passage of larger debris, by moving out of the way.

STEERING SYSTEM

The Pressure POOLCLEANER ™ is the only pressure side cleaner with an internal programmed steering system, that causes the left wheels to periodically turn backwards, allowing the POOLCLEANER ™ to turn and then move into another direction. For the Pressure POOLCLEANER™ there are three different programmed turns ranging from 90 to 540 degrees and this allows the pressure POOLCLEANER™ to travel 12 to 14 ft. before it turns. The POOLCLEANER™ cleans more in the shallow end than any other cleaner. The POOLCLEANER™ has no problem with uneven surfaces or strange shapes. It won't stick in a corner, or get hung up by a main drain. **There is no need for ineffective backup valves.**

ROBUST TIRE TREADS

One look and you will see that the patented tyre treads give the POOLCLEANER™ better climbing ability and obstacle maneuverability. The tyres come with tread wear markers that show you when to replace your tyres. The front tyres of the POOLCLEANER™ have humps (raised treads) that allow the POOLCLEANER™ to overcome obstacles such as the main drain and uneven surfaces. Making the POOLCLEANER™ ideal for all pool surfaces and shapes.

FOUR WHEEL DRIVE

The Pressure POOLCLEANER ™ is a patented 4 wheel drive. What this means to you is that in combination with the patented tyre treads the cleaner has the power to overcome obstacles that normally stop other cleaners.

EXTRA LARGE DIRT BAG

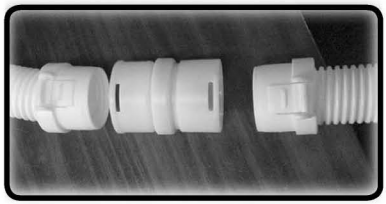
The Pressure POOLCLEANER ™ has the largest dirt bag currently on the market. This bag captures the dirt, leaves and other debris. The bag is easily removed and cleaned. The POOLCLEANER ™ dirt bag (patent pend.) has an internal sock that acts as a trap door by stopping debris from falling back once the Pressure POOLCLEANER™ is shut off.

PRESSURE RELIEF VALVE

The Pressure POOLCLEANER ™ comes with an important pressure relief valve that regulates the pressure flow to the Pressure POOLCLEANER™. This relief valve regulates the pressure so as to not exceed the optimal pressure (12-15 PSI or 11-13 RPM). This will ensure the best possible performance from your Pressure POOLCLEANER™. It does so by opening to bypass water when necessary. Not using the Pressure Relief Valve may cause excessive wear and damage and hence will void the warranty.

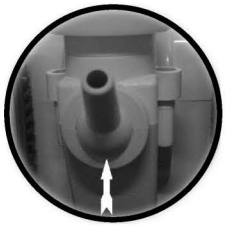
FAST and EASY SNAP SWIVELS

These unique hose swivels (pat pend.) allow for fast and easy assembly and installation of your new Pressure POOLCLEANER™. The swivels snap to connect the 6 ft. hose sections. They prevent the hose from coiling, and leaking, allowing for the best possible performance from your POOLCLEANER™.

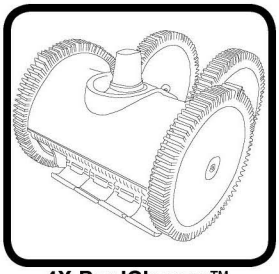


ADJUSTABLE JET

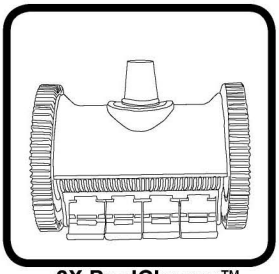
This jet on the back of your Pressure POOLCLEANER ™ allows you to tune the forward motion. In most circumstances it will be pointed upward at 11 o'clock to allow for maximum traction.



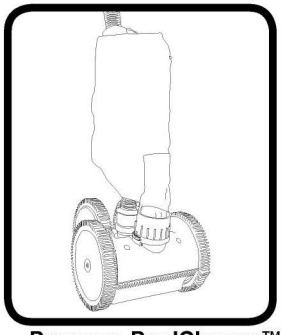
The POOLCLEANER ™ is available in three different models:



4X PoolCleaner™



2X PoolCleaner™



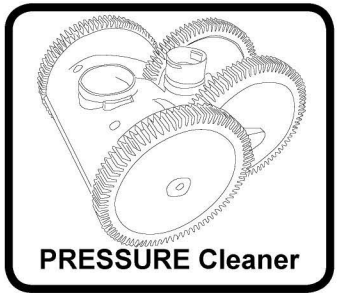
Pressure PoolCleaner™

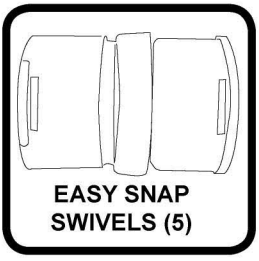
Included with your new PoolCleaner™

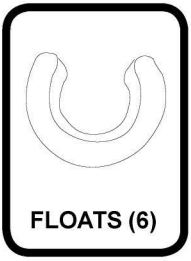
Included components.

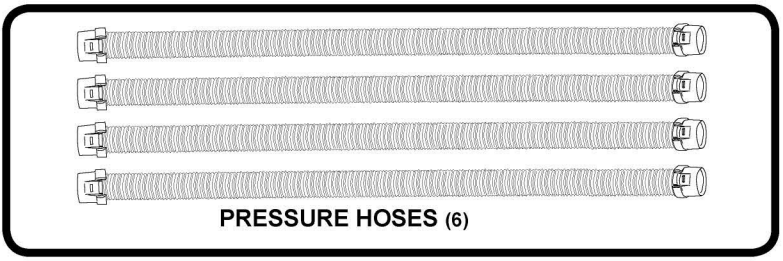
PRESSURE POOLCLEANER ™

1	Pressure POOLCLEANER ™
1	Pressure Relief Valve
1	Wall Fitting Adaptor
6	Sections of special pressure hose
5	Easy Snap Swivels
6	Floats
1	Extra Large Pressure Dirt Bag









Important Facts

The POOLCLEANER ™ should **NEVER** be used to remove plaster debris in new pools.
ALWAYS remove the POOLCLEANER ™ before you chemically shock your pool.
ALWAYS remove the POOLCLEANER ™ when swimmers enter the pool.
When removed from the pool store the POOLCLEANER ™ in a shaded safe area.
When removed from pool **DO NOT** coil the hose. **IT MUST BE STORED STRAIGHT**.
The POOLCLEANER ™ is **NOT** a toy and not intended for children.
Keep the POOLCLEANER ™ and hoses away from chewing pets.
REMOVE the POOLCLEANER ™ when performing backwash.
REMEMBER SAFETY FIRST.

Installing your new PoolCleaner™

STEP 1

Preparing your pool..

1. Manually clean/vacuum your pool.

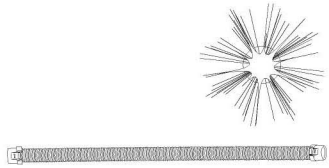
2. Perform a backwash, clean your filter, skimmer baskets and pump basket.

3. Make sure your chemical balance is correct. If not, now is the time to correct it. If you chemically shock the pool, wait a day or two before continuing.

STEP 2

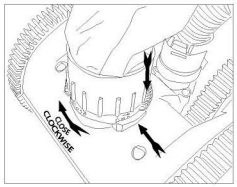
Get hoses ready...

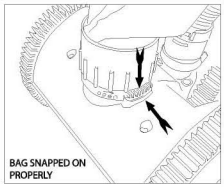
1. Take the hoses and lay them out straight for a day in the sun to take out the coil.



Attaching the extra large dirt bag to the POOLCLEANER™...

1. With the **Zipper facing the back** of the POOLCLEANER™ place the bag so that it is slightly off to the back of the hook on the cleaner (see illustration).

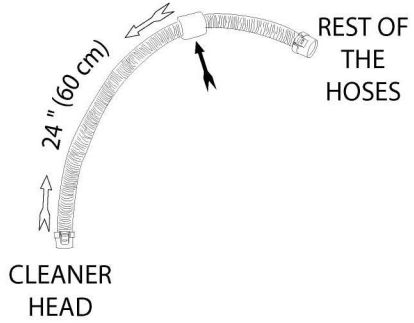




2. Twist clockwise until it snaps.

Connecting the hoses...

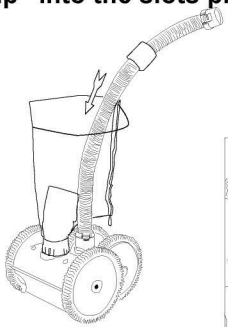
1. Take one length of hose and attach one of the floats 24" (60cm) from one end. The far end will be where the cleaner is attached, and the end closest to the float is where the rest of the hoses will attach.

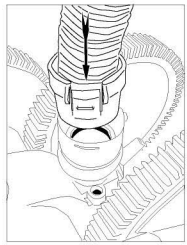


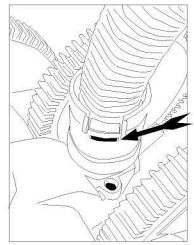
STEP 2 cont'd

Attaching to the cleaner head...

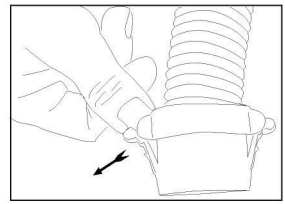
1. Take the hose section (with the float attached) and **pass it through the rope loop (on the bag)**, and attach the end farthest from the float to the cleaner head. **Make sure the tabs and slots are lined up and that both sides "clip" into the slots properly!**







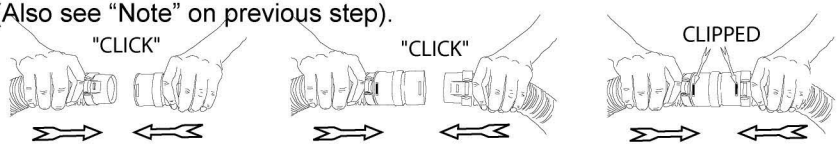
NOTE: It may be necessary to reload the clips on the hoses. Pull out the tab on the hose coupling slightly to reload the clipping action.



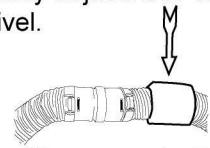
STEP 3

Connecting the hoses (cont'd)...

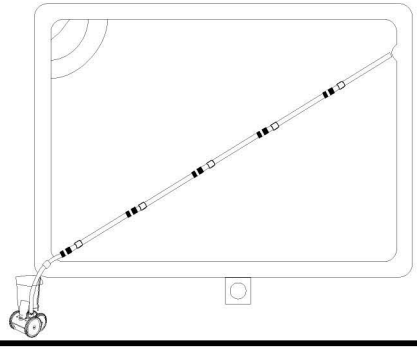
1. Connect the remaining 5 hose sections by connecting the hose couplings with the swivels. And attach one end to the hose on the cleaner. If necessary you may have to purchase additional hose sections and swivels. (Also see "Note" on previous step).



2. Attach a float directly adjacent to each swivel.



3. The connected hoses should be half to one length longer than the furthest point from the return fitting.

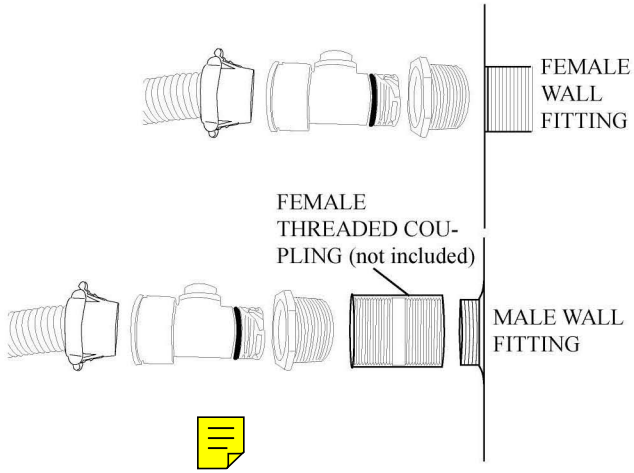


STEP 4

Making the Connection...

1.MAKE SURE THE POWER SUPPLY TO YOUR PUMP IS OFF. SUCTION and PRESSURE CAN BE VERY DANGEROUS!!!

2.Remove the return fitting by unscrewing the retaining ring and eyeball. Check to see if you have a 1 1/2" male or female wall fitting (see illustration). If it is male you will need to purchase a 1 1/2" female threaded coupling as it is not included.



3. Connect the Relief Valve to the hose making sure that it snaps correctly.

4. Screw the Wall Fitting Adaptor into your wall fitting (use a 1 1/2" female coupling if you have a male fitting). And connect the Relief Valve by pushing on the Valve and rotating clockwise until it locks (Bayonet).

5. Switch the pump power back ON.

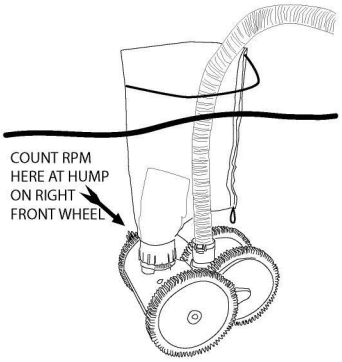
STEP 5

ADJUSTING your POOLCLEANER™ Pressure Relief Valve

ADJUSTING WHEEL RPM (Optimal setting 11-14 RPM)

For the POOLCLEANER™ to run optimally the revolutions per minute should be between 11 and 14 (**Note:** It will still clean as low as 8 RPM but will **NOT** climb walls).

While the POOLCLEANER™ is running take it by the hose and hold the POOLCLEANER™ just below the water. **(KEEP THE CLEANER BELOW THE WATER LEVEL or else it will spray water).** Now count the number of revolutions made by the RIGHT FRONT WHEEL per minute by using the hump (raised treads) as your marker. If it is between 11 and 14 RPM you are done with step 5 and your POOLCLEANER™ is running optimally.



If it is above or below the ideal range, skip to the next page to determine your plumbing style. Then check here to see what to adjust.

Separate System:

Above 14 RPM: Use a control valve on the exit side of the pump to reduce the flow or use a pump with a lower flow rate.

Below 11 RPM: Eliminate any restrictions, increase the size of pipe fittings and/or use a pump with a higher flow rate.

Existing Booster Pump:

Above 14 RPM: Use a control valve on the exit side of the pump to reduce the flow or use a pump with a lower flow rate.

Below 11 RPM: Eliminate any restrictions, increase the size of pipe fittings and/or use a pump with a higher flow rate.

Pump attached to Filter with a 3-Way Valve:

Above 14 RPM: Adjust your three-way away from the POOLCLEANER™ until the RPM drops below 14.

Below 11 RPM: Adjust your three-way toward (so more water flows to the cleaner) the POOL CLEANER™ until the RPM gets to 14.

Pump attached to Filter with NO 3-Way Valve:

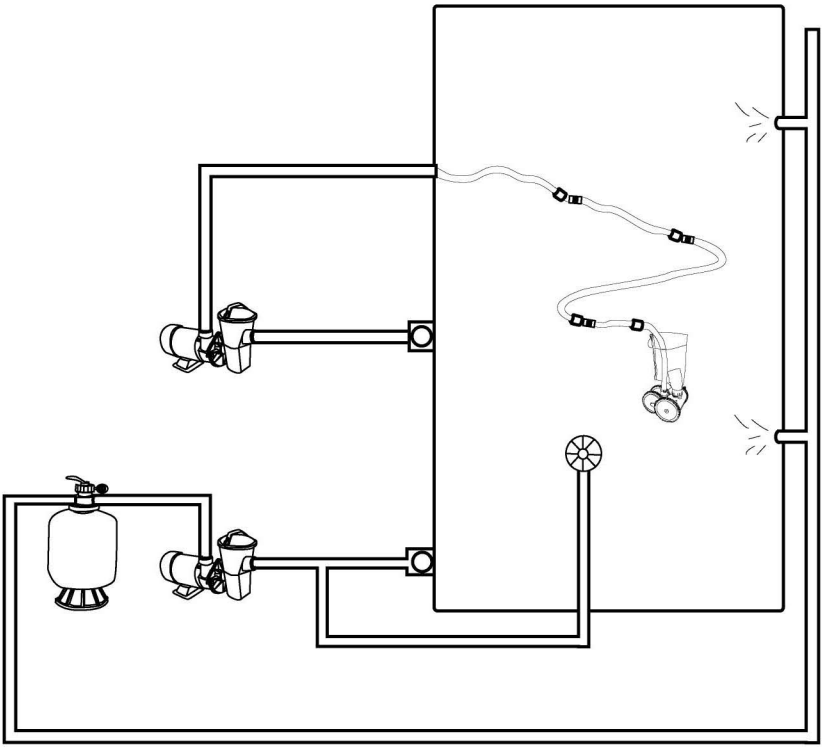
Above 14 RPM: Install nozzles with larger orifice sizes in the remaining return fittings thereby reducing flow to the cleaner. Continue to increase nozzle sizes until you are below 15 RPM.

Below 11 RPM: Install nozzles with smaller orifice sizes in the remaining return fittings thereby increasing flow to the cleaner. Continue to decrease nozzle sizes until you are above 11 RPM.

ADJUSTING your POOLCLEANER™ Pressure Relief Valve CONT'D

In general there are 4 plumbing styles that will determine whether or not you need to make any adjustments.

1. The First Plumbing Style: Separate System
This is when you use a separate pump and plumbing that is separate from your pools filtration system.

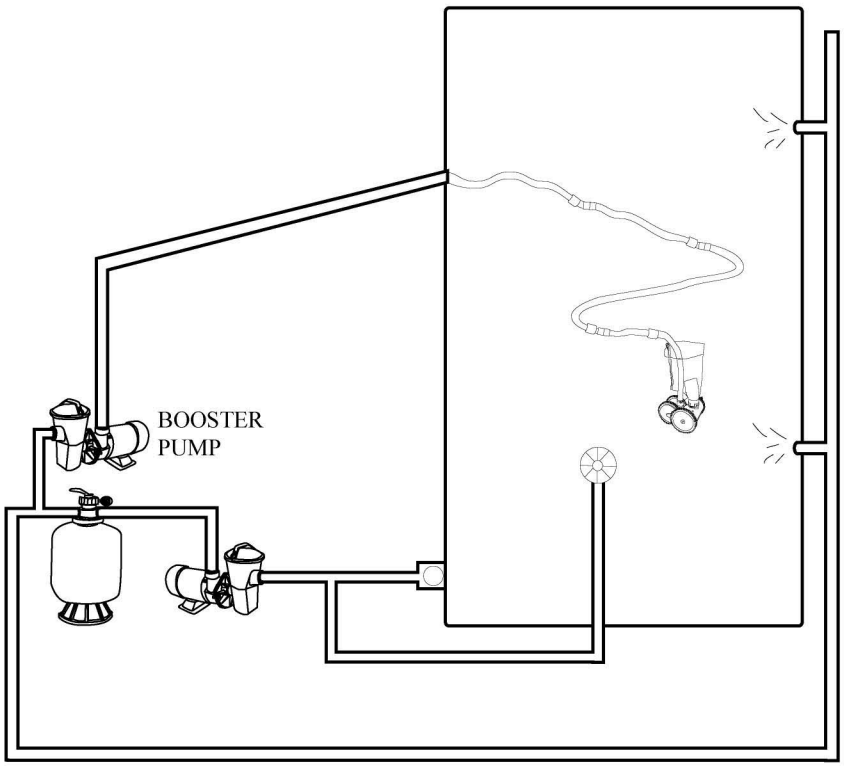


STEP 5 contd

STEP 5 contd

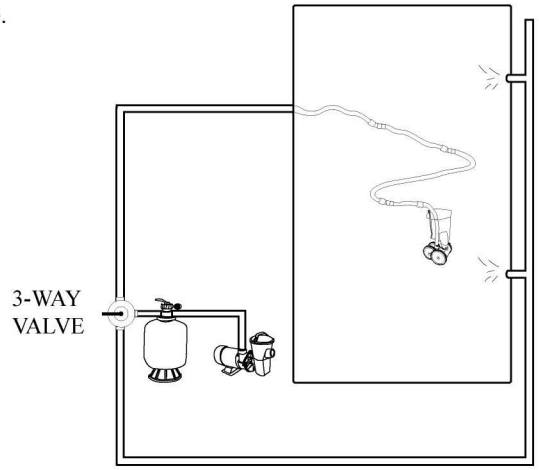
ADJUSTING your POOLCLEANER™ Pressure Relief Valve CONT'D

2. The Second Plumbing Style: Existing Booster Pump
This is when you use a separate pump and which is attached from your pools filtration system.

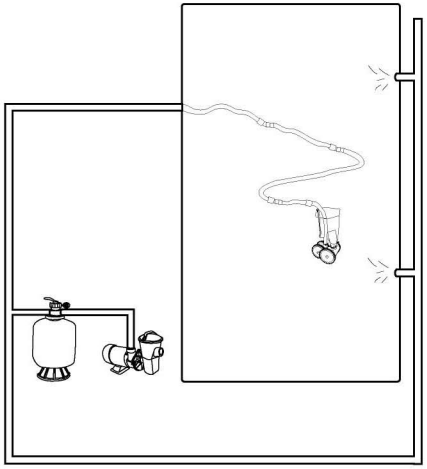


ADJUSTING your POOLCLEANER™ Pressure Relief Valve CONT'D

3. The Third Plumbing Style: Pump attached to Filter with a 3-Way Valve.



4. The Fourth Plumbing Style: Pump attached to Filter with NO 3-Way Valve.



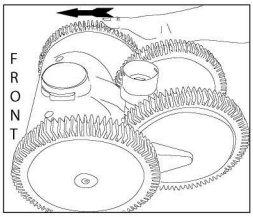
STEP 5 contd

SERVICING YOUR POOLCLEANER™ (REMOVAL OF OBSTRUCTION OR TURBINE VANE REPLACEMENT)

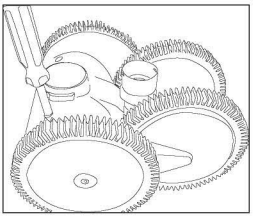
BEFORE YOU DO ANYTHING, TURN THE PUMP OFF.

1 Remove the POOL-CLEANER™ from the pool. Place the hoses straight. Separate the POOL-CLEANER™ from the hose.

2 **First we will check to see if anything is clogged inside the** POOL-CLEANER™. Rotate the RIGHT FRONT wheel forward (the grill is the front). If it won't move there is an obstruction. If it moves smoothly there probably is no obstruction.

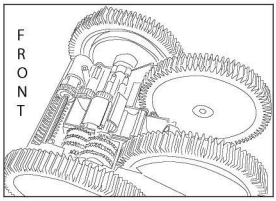


3 Place the cleaner on a work surface.
You will need a Phillips screwdriver. Remove the four screws that hold the Shroud (Top Cover). Remove the Shroud. Set the screws and Top aside.



4 If need be remove the vanes by sliding them out horizontally. Should there be any obstruction remove it.

When you reinsert the vanes make sure that they fold forward , toward the front of the cleaner (the grill). Also make sure that you don't insert the worn side of the vanes into the turbine hub as this would cause them to fall out.



5 Visually inspect the rest of the cleaner, removing any debris that may be in the gears, drive shafts etc. **BEFORE PLACING THE SHROUD BACK ON REPEAT STEP 2 (turn the right wheel) to make sure the POOLCLEANER™ runs smoothly. If it doesn't turn you may have replaced the vanes incorrectly. Make sure the nozzle and partition are in correctly!** Place the Shroud back onto the POOL-CLEANER™ making sure its on correctly. Drop the four screws into the screw holes and secure.

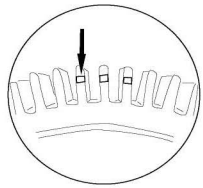
SERVICING YOUR POOLCLEANER™

(CHANGING TYRES ON YOUR POOLCLEANER)

BEFORE YOU DO ANYTHING, TURN THE PUMP OFF. SUCTION CAN BE DANGEROUS!!!

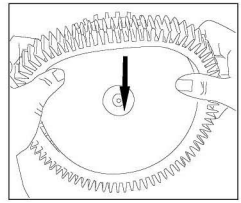
1 Remove the POOL-CLEANER™ from the pool. Place the hoses straight. Separate the POOLCLEANER™ from the hose.

2 **The tyres must be replaced when the tyres are worn down to the tread wear indicators!**



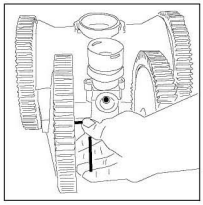
Note: **The front tyres ALWAYS have HUMPS (raised treads) The back tyres DO NOT have humps!**

3 Place the cleaner on a work surface.
TO REMOVE THE POOLCLEANER™ FRONT TYRES, use only your hands (other objects may damage the POOLCLEANER™) simply fold the tyre off from top to bottom.

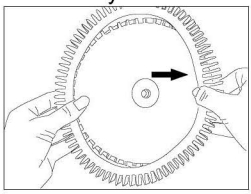


4

BACK TYRES remove the Wheel Hubs with a 5/32" or 4mm allen wrench turning the wrench counterclockwise.

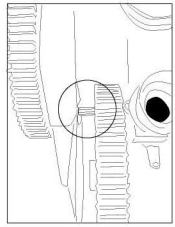


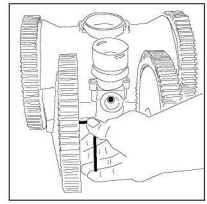
Once off, fold the tyre off the Wheel Hub (step 3 above). To replace stretch the tyre over the Wheel Hub (starting from one side and folding it back on). Make sure the tyre is on correctly.



If need be do this closer to your body for better leverage.

5 Place the bolt through the Wheel Hub line it up with the threaded hole, making sure the gear protruding from the POOLCLEANER™ engages with the gears on the Wheel Hub. Tighten bolt with Allen wrench clockwise.





6 Rotate the right front tyre forward to ensure that it moves smoothly. If not you fastened the wheel hub incorrectly.

Troubleshooting your PoolCleaner™

THE PoolCleaner ™ DOES NOT MOVE

1. The pump may be turned off	-Make sure it is turned on.
2. The pump may not be primed	-Make sure pump is primed and check for leaks in the system.
3. There could be a problem or obstruction somewhere in the system	-Clean the filter (backwash), clean the pump basket , make sure the vacuum hose is free from debris, check if pump impeller is blocked (See your pump manual).
4. Obstruction in the PoolCleaner ™ itself	-(See page 11 for detailed instructions).

THE PoolCleaner ™ MOVES TOO SLOW

1. There could be a problem or obstruction somewhere in the system.	-Clean the filter (backwash), clean the pump basket , make sure the vacuum hose is free from debris, check if pump impeller is blocked (see pump manual) Check if vacuum hoses are leaking and if the system fittings are leaking. Make sure nothing is sucking air.
2. Low wheel RPM (insufficient flow)	-(See page 8 -10 to adjust RPM) After adjusting, if it is still below 8 RPM your pump is not strong enough (the PoolCleaner™ will still move and clean but won't go up the wall). At such low flow most other cleaners won't work at all.
3. Obstruction in the PoolCleaner ™ itself	-(See page 11 for detailed instructions on removal of debris).

THE RIGHT WHEEL WILL NOT TURN WHEN ROTATED BY HAND.

1. There could be an obstruction in the PoolCleaner ™. Either in the Turbine Vanes or in the Gearing.	-Remove any obstruction (See pg 11)

THE LOOPS IN THE HOSES WON'T COME OUT. (Hoses won't straighten)

1. The hoses must have been stored in a coiled position.	- Lay them STRAIGHT in the sunlight. Next time store them straight! If that doesn't work, replace that section of hose.

THE PoolCleaner ™ DOESN'T CLEAN THE ENTIRE POOL

1. The hose is too short	-The hoses must be half to one section longer than the farthest point from attachment. (See pg 6)
2. Pool Return fittings may be pushing the PoolCleaner ™ hoses away.	- Make sure the other return fittings are pointed DOWN.
3. The Float may be in the wrong position.	-The Float should be 24" (60cm) from the cleaner (See pg 5)

THE PoolCleaner ™ WON'T CLIMB THE WALL

1. See "moves too slow" (See pg 14) and "doesn't clean entire pool" (See pg 15). **2. The Float needs to be adjusted.** **Note: It is NOT imperative for a cleaner to clean the wall.**	For the most part make sure the Float is 24" (60cm) away from the cleaner (See pg 5). But it may be necessary to adjust it by twisting the Float away from the cleaner to improve climbing. Other factors may be at work like water too shallow, return fittings not pointed down, hoses too short, algae etc.

THE PoolCleaner ™ FALLS ON ITS SIDE AND TAKES TOO LONG TO RECOVER

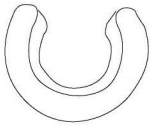
1. The hoses may be too short or Float may be in wrong position.	- Adjust hose to be 24" (60cm) from the cleaner. Other factors may be at work like water too shallow, return fittings not pointed down, hoses too short algae etc.

THE PoolCleaner ™ CLIMBS THE WALL TOO MUCH or IT CLIMBS OUT.

1. The tyre treads may be worn hence increasing suction under the machine.	-Replace the tyres
Note: The Pressure Relief Valve when used correctly should regulate the flow to the cleaner eliminating too much pressure and hence high RPM and too much climbing.	

SPARE PARTS FOR THE POOLCLEANER™

P/N 896584000-280

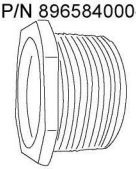


PRESSURE FLOAT

P/N 896584000-266

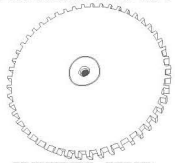
PRESSURE RELIEF VALVE

P/N 896584000-341



WALL FITTING

P/N 896584000-051



WHEEL HUB

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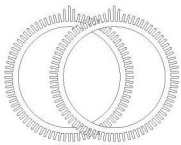

FRONT TYRES

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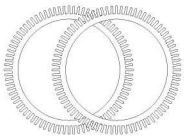

BACK TYRES

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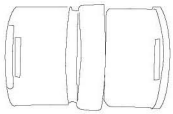


SWIVEL

P/N 896584000-358

PRESSURE SHROUD KIT

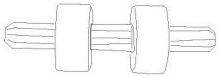
P/N 896584000-297

EXTRA LARGE DIRT BAG

P/N 896584000-303

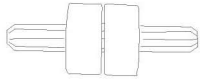
PRESSURE SCREWS

P/N 896584000-112



MAIN DRIVE GEAR

P/N 896584000-129



DRIVE GEAR

P/N 896584000-136

STEERING SLIDE ASSEMBLY

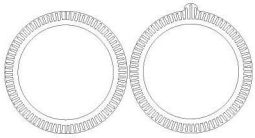
P/N 896584000-167

TURBINE VANES

P/N 896584000-198

WHEEL BOLTS

P/N 896584000-334



SOLID TYRES

P/N 896584000-327

PRESSURE HOSE

WARRANTY

Hartford Pines Pty Ltd ACN 080 687 734 trading as Lincoln (www.linc.com.au) warrants to the purchaser of this product that if any part thereof proves to be defective in workmanship or material in normal domestic use within two years from the date of original purchase, such defective part will be replaced free of charge.

This warranty excludes damage caused by misuse contrary to the operating instructions, neglect, shipping, accident or normal wear and tear. Warranty for the product in commercial use is limited to 6 months. A charge will be made for service outside the warranty period.

The warranty does not cover the cost of transport to and from the retailer or the nearest Lincoln Service Centre.

The rights and remedies conferred by this warranty are in addition to those conferred under the Trade Practices Act and other State and Territory Laws.

HOW TO CLAIM

Complete the form below and return it along with the proof of purchase and the product to the retailer from whom it was purchased or the nearest Lincoln Service Centre. Contact sales@linc.com.au for the nearest location.

REGISTRATION CARD

LINCOLN WARRANTY CLAIM

Owners Name .....

Address .....

.....

Telephone .....

Model Number ..... Date of Purchase .....

Description of Fault .....

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Attach Proof of purchase